

ECMAPLAST 104 HS

250 kgs

Packaging

ECMAPLAST 104 HS is supplied in 250 kgs HDPE barrels.

Shelf Life

Upto 12 months in our original, unopened, sealed packaging.

STANDARDS

ECMAPLAST 104 HS is in compliance with ASTM C 494 TYPE "G" Category as a super plastising and retarding admixture.

It complies with IS 9103-1999, 2007.

Description

High quality high range concrete super plasticizer based on modified sulphonated naphthalene formaldehyde. ECMAPLAST 104 HS is a super plasticizer on addition to concrete it disperses the cement particles, by which it enhances the workability by many folds and also gives good retardation.

Advantages

It improves workability. It has increased strength, improved quality and a good slump retention. ECMAPLAST 104 HS is chloride-free. And has an excellent water reduction and improved impermeability. It is compatible with all types of Portland cements and mineral admixtures like PFA, GGBFS, Micro Silica, Metakaolin etc. It is specially made to suit the requirements of ready-to-mix concrete and concretes with manufactured sand or crush stone sand.

Physical Properties

| | |
|------------------|--|
| Physical Form | Brown Liquid |
| Chloride Content | < 0.2% |
| Air Entrainment | 1%-2% additional over reference concrete |
| Specific Gravity | 1.26 ± 0.02 @ 27°C |
| PH Value | Above 6 |

Dosage And Usage

The normal recommended dosage is 0.4% to 1.4% by weight of cementitious. The optimum dosage and compatibility of the admixture should be ascertained by proper trial in the site. An over dosage will lead to retardation as the formulation is specially designed to give extra retardation. The initial strength of the concrete may be lesser, where as the 3rd day, 7th day and 28th day will not get affected. ECMAPLAST 104 HS has to be added on wet concrete mix for best results. ECMAPLAST 104 HS has good slump retaining ability hence can be transported to longer distance due to which cold joints and placing problem can be avoided.



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website www.ecmas.co.in

Storage And Handling**KEEP
DRY**

The materials must be stored in a moisture free, cool and dry environment, away from any direct sun-light.

**STACK
HEIGHT**

Please avoid stacking of the containers.

Handle the product(s) very carefully during transportation.

Safety Precautions

ECMAPLAST 104 HS is non-toxic and non-flammable. Splashes on eyes has to be immediately washed with plenty of water and seek medical advice.

Wear all PPE's at the time of the application like safety boots, goggles, hand gloves and masks. Avoid contact with skin and eyes. Any direct skin contact with the products should be washed off thoroughly with soap and water.

Trial Mix

M40

Mix Constituents

| | |
|-------------------|----------------------|
| Cement | OPC 53 Grade |
| Sand ³ | 43.5% zone 11 |
| Aggregate | 56.5 % (20mm & 10mm) |

Trial Result

| Cement | Dosage | W/C | Slump after 90 mins | Compressive strength | | |
|-----------------|--------------------------|-------|------------------------|----------------------|------|------|
| | | | | MPA - Days | | |
| Content kg/m | % by weight of cement | Ratio | mm | 3 | 7 | 28 |
| 450 | 0.9 | 0.38 | 110 | 29 | 42.5 | 54.5 |

Note: The above results are for reference only based on our lab trials using cement, aggregates locally available to us. The results may vary if sources are changed. It is recommended for end user to make proper trials before proposed application.

Quality Policy

We at ECMAS Construction chemicals Pvt Ltd. are committed to provide high quality products to ensure highest performance. Each product comes with ECMAS quality stamp is intended to maximize value addition and performance of the final product. The products are manufactured under a management system independently certified to conform to the requirements of the quality standards of ISO 9001-2015.

Technical Support

Each user can determine the suitability of this product in their particular mode of operation. An ECMAS representative will be happy to assist in proper selection of all our products available for commercial use.



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